

Title (en)

ALUMINUM-BASE OXIDES, MOLDINGS THEREOF, AND PRODUCTION OF SAID OXIDES.

Title (de)

AUF ALUMINIUM BASIERENDE OXIDE, FORMKÖRPER DARAUS UND DIE HERSTELLUNG DERARTIGER OXIDE.

Title (fr)

DES OXYDES A BASE D'ALUMINIUM, DES MOULAGES DE CEUX-CI, ET LA FABRICATION DESDITS OXYDES.

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Application

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Priority

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Abstract (en)

Substantially amorphous aluminum-base oxides of the following chemical composition and aluminum-base metal compositions comprising said oxide and metallic aluminum and/or bismuth: $Al_{1-x-y_1-y_2}BixM_1y_1M_2y_2O_z$ wherein M1 is at least one member selected from among Si, P, B, Sb, Se, Te, Sn, Zn, In, Cr, Nb, Sc, Y, Sr, Ba, Ca, Na, Li, Mg, Mn, W, Ti, Zr, Hf, Be, and rare earth metals; M2 is at least one member selected from among Fe, Ni, Co, Rh, Re, Ru, Cu, and Pb; $0.0001 \leq x \leq 0.10$; $0 \leq y_1 \leq 0.1$; $0 \leq y_2 \leq 0.01$; and $1.2 \leq z < 1.5$, wherein x, y1, y2, and z each represents an atomic ratio. These oxides and metal compositions are useful as electronics components and catalysts.

Abstract (fr)

Des oxydes à base d'aluminium sensiblement amorphes de la composition chimique suivante et des compositions métalliques à base d'aluminium comprenant ledit oxyde et aluminium métallique et/ou bismuth: $Al_{1-x-y_1-y_2}BixM_1y_1M_2y_2O_2$ où M1 représente au moins un élément choisi à partir de Si, P, B, Sb, Se, Te, Sn, Zn, In, Cr, Nb, Sc, Y, Sr, Ba, Ca, Na, Li, Mg, Mn, W, Ti, Zr, Hf, Be, et des métaux des terres rares; M2 représente au moins un élément choisi à partir de Fe, Ni, Co, Rh, Re, Ru, Cu et Pb; $0,0001 \leq x \leq 0,10$; $0 \leq y_1 \leq 0,1$; $0 \leq y_2 \leq 0,01$; et $1,2 \leq z < 1,5$, où x, y1, y2 et z représentent chacun un rapport atomique. Ces oxydes et compositions métalliques sont utiles comme composants électroniques et catalyseurs.

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IPC 8 full level

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CPC (source: EP KR US)

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